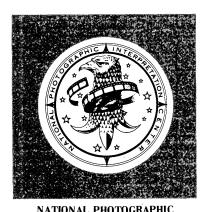
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PHOTOGRAPHIC INTERPRETATION REPORT

NEW PROBABLE SAM LAUNCHER ON SOVIET SHIPS

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	NEW PROBABLE SAM LAUNCHER ON SOVIET SHIPS	
	INTRODUCTION	
retractable probaships are the Kri Grisha-class larg guided missile pa be a single-arm	sses of Soviet naval ships employ a new type of ble surface-to-air missile (SAM) launcher. The vak-class guided missile destroyer (DDGM), the e submarine chaser (PCS), and the Nanuchka-class trol boat (PGG). This missile launcher appears to type. If so, it is a departure from the standard do by other Soviet SAM-armed combatants. Measurement	
	BASIC DESCRIPTION	
undergoing sea trin both extended under construction photography of two unoccupied an antisubmarine root). These platfor forward armament	er 1970 when the Krivak DDGM was first observed rials, a missile launcher was seen aft of the stage and retracted positions. This ship had been seen at Kaliningrad Shipyard 820, USSR, on KEYHOLE At that time the photography revealed mament platforms on the ship, one forward of the extet launchers and the other abaft the stack (Figure 1) when the positions on the Grisha PCS (Figure 2) and the gures 2 and 3) are also platforms 3 meters (10 feed).	ire
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	3. A Grisha PCS with the new launcher system was seen at Feodosiya Naval Base and Shipyard and at	25X1
	Sevastopol Naval Base Streletskaya The launcher seen at Feodosiya	25X1 25X1
Γ	When retracted, the missile launcher is covered by a circular	
	hatch. This hatch is divided into two hinged sections which open	
	outward. The hatch covers have not been seen open on the Nanuchka PGG or on the Krivak DDGM.	
	4. An object, possibly the new launcher, was seen on the bow of a Nanuchka PGG at Feodosiya Naval Base and Shipyard	25 X 1
	(Figure 2). Although positive identification could not be made, the	
	height and shape of the object suggested that it was the new launcher in the extended position. An artist's concept of the possible con-	:
	figuration of the launcher in the firing position is presented as	
	an inset on Figure 2. The missile shown in this drawing is for illustrative purposes only and was not observed on the photography.	
	and was not observed on the photography.	
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5. Since a strong probability exists that the three mentioned classes of ships all employ the same retractable launching system, it appears equally probable that the ships should employ the same fire control radar system. A radar believed to be associated with the new launcher system has been seen at Petrovskiy Shipyard in Leningrad where the Nanuchka PGG is constructed. A naval attache photograph shows this radar on the quay in front of the six-door construction hall (Figure 5). No technical analysis of this radar is yet available, but its configuration suggests that it may be the fire control radar for the retractable launcher system. An artist's concept of this radar (inset, Figure 5) shows that the radar has a possible acquistion-type radar antenna and two circular antennas possibly used for missile guidance and airborne target tracking.

6. Two radars are used on the Krivak DDGM, one atop the bridge and one aft of the main mast. These radars and the one seen at Petrovskiy Shipyard (Figure 5) are similar in appearance. On the Grisha PCS the radar is positioned atop the bridge. The radar on the Grisha PCS has not been observed from ground level, but KEYHOLE photography has revealed an object on the bridge similar in size to that of the radar on the Krivak DDGM. On the Nanuchka PGG, the radar is housed in a large radome atop the superstructure (Figures 2 and 3).

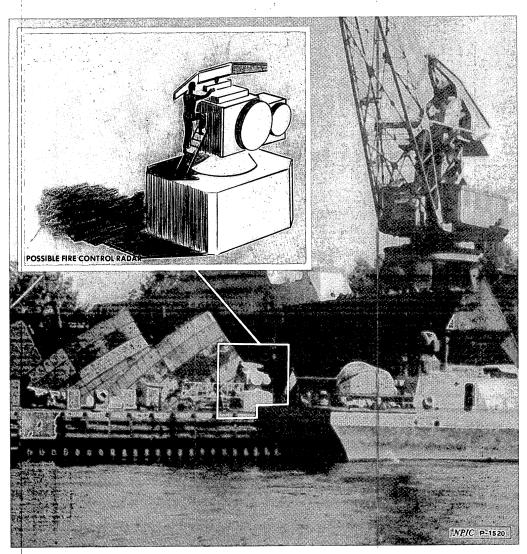


FIGURE 5. PETROVSKIY SHIPYARD, LENINGRAD, USSR (NAVAL ATTACHE PHOTOGRAPH, 1960)

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